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Scientific Chemical Processing, Inc., Carlstadt, Bergen County (#79-33)

1. The site is in an urban area zoned for heavy industry -- the New Jersey Sports Complex is to the south, a storage facility is east, and Peach Island Creek forms the northern perimeter. The creek flows NW and eventually empties into the Hackensack River, about a mile to the SE. There are no public water supplies within one-half (1/2) mile; two (2) on-site service wells provide process water.
2. The application is for an existing three-acre facility in operation since the early 1950's. It provides chemical processing and re-cycling operations for industrial customers. Raw material is received in tank trucks and 55-gallon drums; the drums when emptied are removed to be reconditioned or scrapped.

There are at least 20 above-ground storage tanks. Two (2) tanks adjacent to Peach Island Creek rest on concrete slabs surrounded by concrete dikes.

A 10-foot deep clay cut-off wall has been installed adjacent to the creek to prevent polluted ground water from entering into it.

Contaminated process water is directed to the Carlstadt Sewerage Authority for treatment, while cooling water is sent to the Peach Island Creek via Federally-permitted outfalls. The process water was analyzed, with the following results:

TDS	72,800 ppm
BOD	14,000 ppm

3. The site is in the Hackensack Meadowlands -- a tidal swamp. Soils consist of fill over organic silt, with a bedrock of Brunswick Shale. Topography is flat sloping gently north; ground water is also assumed to move in a northerly direction. No soil borings were made; however, the marshy conditions and proximity to Peach Island Creek (several feet lower in elevation than the facility) would indicate a shallow water depth (less than five feet).
4. A site inspection was made on January 11, 1980.

There are 2,835 full 55-gallon drums stored on pallets on fill-covered with crushed stone.

There are at least 18 storage tanks on the western perimeter. All are on fill, none are diked.

Truck loading/unloading areas also consist of gravel and fill.

Housekeeping is good here. No "leakers" or spills were seen in drum storage areas, and the surface around the above-ground tanks was also clean.

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5. Conclusions - There is almost no secondary containment to prevent spills from entering the sewers or the creek. Therefore, the following measures should be implemented:

- All drums should be stored on impervious material within impervious diked areas.
- All above-ground tanks should be diked with interiors composed of impervious material. Dikes should be of sufficient capacity to contain the largest possible spill.
- Truck loading/unloading areas should be concreted or asphalted, curbed, and sloped toward a sump area large enough to hold the contents of a tanker.
- An impermeable dike should be constructed along Peach Island Creek. This will prevent any spills from directly entering the creek, before clean-up measures can be taken.
- One monitor well should be installed adjacent to and south of the impervious cut-off wall along the northern perimeter.

DK:wmc

cc: Mr. P. Dahlgren